PolvOne

## MATERIAL SAFETY DATA SHEET LT. GREY ABS V4

Version Number 1.1 Revision Date 10/19/2012

Product Use

Page 1 of 8 Print Date 10/22/2012

#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	LT. GREY ABS V4
Product code	:	CC10161825
Chemical Name	:	Mixture
CAS-No.	•	Mixture

### : Industrial Applications

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Styrene	100-42-5	0.1 - 1
Calcium carbonate	1317-65-3	1 - 5
Silica, amorphous	7631-86-9	5 - 10
Titanium dioxide	13463-67-7	10 - 30

#### 3. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

#### POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation	: Resin particles, like other inert materials, can be mechanically irritating.
Ingestion	: May be harmful if swallowed.
Eyes	: Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.

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# MATERIAL SAFETY DATA SHEET LT. GREY ABS V4

Version Number 1.1 Revision Date 10/19/2012 Page 2 of 8 Print Date 10/22/2012

Medical Conditions	:	None known.
Aggravated by Exposure:		
		4. FIRST AID MEASURES
Inhalation	:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion	:	Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	:	Wash off with soap and plenty of water. If skin irritation persists seek medical attention.
		5. FIREFIGHTING MEASURES
Flash point	:	not applicable
Flammable Limits		
Upper explosion limit	:	not applicable
Lower explosion limit	:	not applicable
Auto-ignition temperature Suitable extinguishing media	:	not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam.
Suitable extinguishing media	•	Carbon dioxide blanket, water spray, Dry powder, roani.
Special Fire Fighting Procedures	:	Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. A	CCIDENTAL RELEASE MEASURES
Personal precautions	:	Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	:	Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	:	Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal.



# MATERIAL SAFETY DATA SHEET LT. GREY ABS V4

Version Number 1.1 Revision Date 10/19/2012	Page 3 of 8 Print Date 10/22/2012
Handling :	Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
Storage :	Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.
8. EXPOSU	RE CONTROLS/PERSONAL PROTECTION
Respiratory protection :	No personal respiratory protective equipment normally required.
Eye/Face Protection :	Safety glasses with side-shields
Hand protection :	Protective gloves
Skin and body protection :	Long sleeved clothing
Additional Protective : Measures	Safety shoes
General Hygiene : Considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Engineering measures :	Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.
Exposure limit(s)	

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# MATERIAL SAFETY DATA SHEET LT. GREY ABS V4

Version Number 1.1 Revision Date 10/19/2012 Page 4 of 8 Print Date 10/22/2012

Components	Value	Exposure time	Exposure type	List:
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):		MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
Silica, amorphous	6 mg/m3	Recommended exposure limit (REL):		NIOSH
	0.8 mg/m3	Time Weighted Average (TWA):		Z3
	10 mg/m3	Time Weighted Average (TWA):	Inhalable particulate.	MX OEL
	3 mg/m3	Time Weighted Average (TWA):	Respirable dust.	MX OEL
Styrene	20 ppm	Time Weighted Average (TWA):		ACGIH
	40 ppm	Short Term Exposure Limit (STEL):		ACGIH
	50 ppm 215 mg/m3	Recommended exposure limit (REL):		NIOSH
	100 ppm 425 mg/m3	Short Term Exposure Limit (STEL):		NIOSH
	100 ppm	Time Weighted Average (TWA):		OSHA Z2
	200 ppm	Ceiling Limit Value:		OSHA Z2
	600 ppm	Maximum concentration:		OSHA Z2
	50 ppm 215 mg/m3	Time Weighted Average (TWA):		OSHA Z1A
	100 ppm 425 mg/m3	Short Term Exposure Limit (STEL):		OSHA Z1A
	50 ppm 215 mg/m3	Time Weighted Average (TWA):		MX OEL
	100 ppm 425 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance : solid : pellets Evaporation rate Specific Gravity

Not applicableNot determined

# MATERIAL SAFETY DATA SHEET LT. GREY ABS V4

: GREY

Version Number 1.1 Revision Date 10/19/2012

Colour

Odour Melting point/range Boiling Point: Water solubility	: No : no	ry faint ot determined t applicable soluble	Vapour pressure Vapour density pH	:	not applicable not applicable not applicable
	10	). STABILITY AND R	EACTIVITY		
Stability	:	The product is stable i	f stored and handled as	preso	cribed.
Hazardous Polymerization	:	Will not occur.			
Conditions to avoid	:	Keep away from oxidi decomposition, do not	zing agents and open fl overheat.	ame.	To avoid thermal
Incompatible Materials	:	Incompatible with stro	ong acids and oxidizing	agen	ts.
Hazardous decomposition products	:		, carbon monoxide (CC s materials, and smoke	· ·	Ų

Bulk density

#### 11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
100-42-5	Styrene	tyrene Irritant	
		Systemic effects	Eyes, Skin, Respiratory system, Liver, central nervous system (CNS).
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.
7631-86-9	Silica, amorphous	Irritant	Eyes, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
100-42-5	Styrene	LC50	12 gm/m3	rat
		Oral LD50	2,650 mg/kg	rat

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

PolyOne.

Page 5 of 8 Print Date 10/22/2012

: Not established

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# MATERIAL SAFETY DATA SHEET LT. GREY ABS V4

Version Number 1.1

Revision Date 10/19/2012

Page 6 of 8 Print Date 10/22/2012

CAS-No.	Chemical Name	OSHA	IARC	NTP
100-42-5	Styrene	no	2B	no
13463-67-7	Titanium dioxide	no	2B	no

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

- 1 The component is known to be a human carcinogen.
- 2 The component is reasonably anticipated to be a human carcinogen.

### Additional Health Hazard Information:

Styrene 100-42-5 Irritating to eyes, skin, and respiratory tract with many CNS effects such as narcosis, cramps and respiratory tract paralysis.

Persistence and degradability Environmental Toxicity Bioaccumulation Potential	<ul><li>Not readily biodegradable.</li><li>Chemicals are not readily available as they are bound within the polymer matrix.</li></ul>
Bioaccumulation Potential	
stouceanitation rotential	: Chemicals are not readily available as they are bound within the polymer matrix.
Additional advice	: no data available
	13. DISPOSAL CONSIDERATIONS
Product Contaminated packaging	<ul> <li>Like most thermoplastic plastics the product can be recycled. When possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.</li> <li>Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.</li> </ul>
	14. TRANSPORT INFORMATION
U.S. DOT Classification	: Not regulated for transportation.
ICAO/IATA	: Refer to specific regulation.
IMO/IMDG (maritime)	: Refer to specific regulation.

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# MATERIAL SAFETY DATA SHEET LT. GREY ABS V4

Version Number 1.1 Revision Date 10/19/2012

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Page 7 of 8 Print Date 10/22/2012

	15	5. REGULATOR	Y INFO	RMATIO	N		
US Regulations:							
OSHA Status	:	Classified as haz	zardous b	ased on co	mponents		
TSCA Status	:	All components TSCA Inventory		roduct are	listed on o	or exen	npt from the
US. EPA CERCLA Hazardo	us Sub	stances (40 CFR 3	302)				
not applicable							
California Propositio 65	n :	Not applicable					
SARA Title III Section 302				s product is	s Not App	licable	under this regulation
SARA Title III Section 313							
Unless specific chemicals are Chemical Name	e ident	ified under this see	ction, this	s product is CAS-No.			under this regulation
STYRENESTYRENE				100-42-5		0.10 -	
Canadian Regulations: National Pollutant Re	lease I	nventory (NPRI)			·		
Chemical Name	ieuse i		CAS-N	0.	Weight		NPRI ID#
Styrene			100-42-	-5	percent 0.10 - 1.	00	
WHMIS Classification	on :	D2A					·



# MATERIAL SAFETY DATA SHEET LT. GREY ABS V4

Version Number 1.1 Revision Date 10/19/2012		Page 8 of 8 Print Date 10/22/2012
Day		
DSL	:	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:		
Australia AICS	:	Listed
China IECS	:	Listed
Europe EINECS	:	Listed
Japan ENCS	:	Listed
Korea KECI	:	Listed
Philippines PICCS	:	Listed
16. OTHER INFORMATION		

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.